

**EXPRESS MAIL CERTIFICATE**

DOCKET NO. : 20959/1661 (P 58792)  
APPLICANT(S) : Norbert Moszner, Thomas Völkel, Volker Rheinberger, and  
Ulrich Schubert  
TITLE : DENTAL MATERIALS BASED ON METAL OXIDE  
CLUSTERS

Certificate is attached to the **Information Disclosure Statement, PTO-1449  
Form (2 pages) (in duplicate) and 19 references** of the above-named application.

“EXPRESS MAIL” NUMBER: EL801320970US  
DATE OF DEPOSIT: January 18, 2002

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s) : Norbert Moszner, Thomas Völkel, )  
Volker Rheinberger, and Ulrich Schubert )  
Serial No. : To Be Assigned )  
Cnfrm. No. : To Be Assigned )  
Filed : Herewith )  
For : DENTAL MATERIALS BASED ON METAL )  
OXIDE CLUSTERS )

Examiner:  
To Be Assigned  
Art Unit:  
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INFORMATION DISCLOSURE STATEMENT  
UNDER 37 CFR §§ 1.97-1.98

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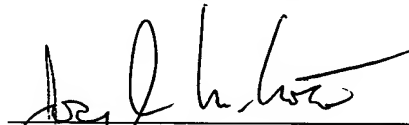
Dear Sir:

In accordance with the duty of disclosure as set forth in 37 C.F.R. § 1.56, applicants hereby bring to the attention of the United States Patent and Trademark Office, pursuant to 37 C.F.R. §§ 1.97-1.98, the enclosed documents listed on the attached PTO-1449 form.

It is respectfully requested than an Examiner-initialed copy of this form be returned to the undersigned.

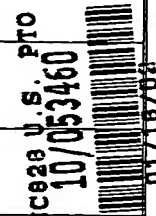
Respectfully submitted,

Date: January 18, 2002

  
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U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE  INFORMATION DISCLOSURE STATEMENT BY APPLICANT  (use several sheets if necessary)  (PTO-1449 )	ATTY. DOCKET NO.  20959/1661 (P 58792)	SERIAL NO.  To Be Assigned
	APPLICANT  Moszner et al.	
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## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPRO- PRIATE
	1	5,508,342	04/16/1996	Antonucci et al.			
	2	6,096,903	08/01/2000	Moszner et al.			

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANS- LATION IF APPRO- PRIATE
	3	WO 92/11837	07/23/1992	WIPO			
	4	WO 96/13538	05/09/1996	WIPO			
	5	WO 98/46197	10/22/1998	WIPO			
	6	WO 98/47047	10/22/1998	WIPO			
	7	DE 198 46 660 A1	10/09/1998	Germany			abstract
	8	DE 196 34 189 A1	08/23/1996	Germany			abstract
	9	DE 41 33 494 C2	10/09/1991	Germany			abstract

## OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

		10	Schubert et al., "Primary Hydrolysis Products of Methacrylate-Modified Titanium and Zirconium Alkoxides," <u>Chem. Mater.</u> , 4:291-295 (1992)
		11	Kiekelbick et al., "Oxozirconium Methacrylate Clusters: $Zr_6(OH)_4O_4(OMc)_{12}$ and $Zr_4O_2(OMc)_{12}$ (OMc = Methacrylate)," <u>Chem. Ber./Recueil</u> , 130:473-477 (1997)
		12	Rawls et al., "Radiopaque Acrylic Resins Containing Miscible Heavy-Metal Compounds," <u>Dent. Mater.</u> , 6(4):250-255 (1990) (abstract only)
		13	Skrtic et al., "Physicochemical Evaluation of Bioactive Polymeric Composites Based on Hybrid Amorphous Calcium Phosphates," <u>J. Biomed. Mater. Res.</u> , 53(4):381-391 (2000) (abstract only)
		14	Loebenstein, "Coupling Agents for Improved Bonding of ***Dental*** Composites," <u>J. Dent. Res.</u> , 57(3):480 (1978) (abstract only)
EXAMINER			DATE CONSIDERED
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.			

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## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRAN- SLATION IF APPRO- PRIATE
	15	44 16 857 C1	05/13/1994	Germany			abstract
	16	EP 1 022 012 A2	07/26/2000	Europe			abstract
	17	DE 31 37 840 C2	09/23/1981	Germany			abstract
	18	JP 03177470 A2	08/01/1991	Japan			abstract

## OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

		19	Yoshida et al., "Effects of Coupling Agents on Mechanical Properties of Metal Oxide -Polymethacrylate Composites," <u>J. Dent.</u> , 22(1):57-62 (1994) (abstract only)
EXAMINER			DATE CONSIDERED
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